

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A flexible monolithic electronic device, comprising:

a substrate layer of electrically insulating material having a first side and an opposed second side, the substrate layer having at least one aperture extending from the first to the second side;

an active layer of a semiconductor material disposed on and in contact with the first side of the substrate layer, the active layer including at least one switching element having an electrode;

a flexible coating formed on the first side of the substrate layer and for acting as a protective cover for the at least one switching element; and

a functional layer disposed on and in contact with the second side of the substrate layer and electrically connected to the electrode of the at least one switching element through the at least one aperture,

wherein the at least one aperture is filled with conductive material, the conductive material connecting the active and functional layers.

2. (Canceled)

3. (Previously presented) The flexible electronic device as claimed in Claim 1, wherein the functional layer is an electro-optical layer which constitutes, in conjunction with a switching element, a display pixel.

4. (Previously presented) The flexible electronic device as claimed in claim 3, wherein an electrically conductive layer is present between the active layer and the functional layer, and a pixel electrode is defined in the electrically conductive layer.

5. (Previously presented) The flexible electronic device as claimed in claim 4, wherein the display pixel comprises a capacitor having first and second electrodes and a dielectric, the first electrode is provided in the electrically conductive layer and the second electrode is provided in the active layer, the substrate layer acting as a dielectric.

6. (Previously presented) A flexible electronic device as claimed in claim 5, wherein the substrate layer further comprises a high-K area which acts as the dielectric of the capacitor.

7. (Previously presented) The flexible electronic device as claimed in claim 3, wherein the switching element is part of an array of switching elements provided on the active layer, the array is driven by a driving circuit comprising an integrated circuit of circuit elements provided in and on the active layer.

8. (Canceled)

9. (Previously presented) An apparatus comprising a flexible device according to Claim 1.

10. (Canceled)

11. (Previously presented) A rollable cartridge comprising the flexible electron device according to Claim 3.

12-13. (Canceled)